PREPARED FOR

Attn: Terri Choy AECOM 1001 Bishop Street Honolulu, Hawaii 96813

Generated 3/1/2023 6:00:04 PM

JOB DESCRIPTION

Red Hill - AFFF Assessment Sampling

ANALYTICAL REPORT

JOB NUMBER

580-123908-1

Eurofins Seattle 5755 8th Street East Tacoma WA 98424



Eurofins Seattle

Job Notes

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The data in the report relate to the field sample(s) as received by the laboratory and associated QC. All results have been reviewed and have been found to be compliant with laboratory and accreditation requirements, with the exception of the noted deviation(s). For questions, please contact the Project Manager.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

Authorization

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Eurofins Seattle is a laboratory within Eurofins Environment Testing Northwest, LLC, a company within Eurofins Environment Testing Group of Companies

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Client: AECOM

Project/Site: Red Hill - AFFF Assessment Sampling

Laboratory Job ID: 580-123908-1

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Case Narrative

Client: AECOM Job ID: 580-123908-1

Project/Site: Red Hill - AFFF Assessment Sampling

Job ID: 580-123908-1

Laboratory: Eurofins Seattle

Narrative

CASE NARRATIVE

Client: AECOM
Project: Red Hill - AFFF Assessment Sampling
Report Number: 580-123908-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

Following DoD QSM guidelines, manual integrations were performed only when necessary and are in compliance with the laboratory's standard operating procedure, Acceptable Manual Integration Practices, SOP No.: Q-S-002. The reason(s) for manual integration have been documented on the affected chromatogram(s), which is/are provided in the raw data package. The raw data also includes the original chromatogram(s) prior to any manual integration being performed. Manual integrations are detailed in the manual integration summary forms following this narrative.

It should be noted that samples with elevated Limits of Quantitation (LOQs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the LOQs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 02/22/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.1 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

GLYCOLS

Samples AF-RHMW03-WGN01LF-2302W2 (580-123908-1), AF-RHMW02-WGN01LF-2302W2 (580-123908-2), AF-RHMW17D-WGN01LF-2302W2 (580-123908-3), AF-RHMW17D-WQFB01-2302W2 (580-123908-4) and AF-RHMW17-WGN01LF-2302W2 (580-123908-6) were analyzed for glycols in accordance with EPA SW-846 Method 8015B - DAI. The samples were analyzed on 02/28/2023.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Definitions/Glossary

Client: AECOM Job ID: 580-123908-1

Project/Site: Red Hill - AFFF Assessment Sampling

Qualifiers

GC Semi VOA

 Qualifier
 Qualifier Description

 M
 Manual integrated compound.

 U
 Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Seattle

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Client: AECOM Job ID: 580-123908-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW03-WGN01LF-2302W2 Lab Sample ID: 580-123908-1

Date Collected: 02/16/23 13:25 Matrix: Water

Date Received: 02/22/23 10:30

Method: SW846 8015C GLY - Glycols- Direct Injection (GC/FID)									
Analyte	Result Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fa		
2-(2-Butoxyethoxy)ethanol	3.0 U M	5.0	1.1 mg/L			02/28/23 17:01			

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Client: AECOM Job ID: 580-123908-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW02-WGN01LF-2302W2 Lab Sample ID: 580-123908-2

Date Collected: 02/16/23 11:40 Matrix: Water

Date Received: 02/22/23 10:30

Analyte		ualifier	LOQ		Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	30 U		5.0	1 1	ma/l			02/28/23 18:11	1

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Client: AECOM Job ID: 580-123908-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17D-WGN01LF-2302W2 Lab Sample ID: 580-123908-3

Date Collected: 02/17/23 11:45 Matrix: Water

Date Received: 02/22/23 10:30

Analyte	Result Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	30 UM	5.0	1.1 mg/l			02/28/23 18:35	1

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Client: AECOM Job ID: 580-123908-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17D-WQFB01-2302W2 Lab Sample ID: 580-123908-4

Date Collected: 02/17/23 10:45 Matrix: Water

Date Received: 02/22/23 10:30

Method: SW846 8015C GLY - 0	Glycols- Direct Injection	(GC/FID)					
Analyte	Result Qualifier	LOQ	DL Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0 U M	5.0	1.1 mg/L			02/28/23 18:58	1

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Client: AECOM Job ID: 580-123908-1

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW17-WGN01LF-2302W2 Lab Sample ID: 580-123908-6

Date Collected: 02/17/23 10:10 Matrix: Water

Date Received: 02/22/23 10:30

Analyte	Result	Qualifier	LOQ	DL U	nit	D	Prepared	Analyzed	Dil Fac	
2-(2-Butoxyethoxy)ethanol	3.0	U	5.0	11 m	a/l			02/28/23 19:45	1	

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Client: AECOM Job ID: 580-123908-1

Project/Site: Red Hill - AFFF Assessment Sampling

Method: 8015C GLY - Glycols- Direct Injection (GC/FID)

Lab Sample ID: MB 680-765364/10 **Client Sample ID: Method Blank**

Matrix: Water

Analysis Batch: 765364

MB MB

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-(2-Butoxyethoxy)ethanol	3.0	U M	5.0	1.1	mg/L			02/28/23 16:37	1

Lab Sample ID: LCS 680-765364/6 **Client Sample ID: Lab Control Sample Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 765364

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits 2-(2-Butoxyethoxy)ethanol 20.0 22.7 50 - 150 mg/L 114

Lab Sample ID: LCSD 680-765364/7 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 765364

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
2-(2-Butoxyethoxy)ethanol	20.0	20.0		mg/L		100	50 - 150	13	50

Lab Sample ID: 580-123908-1 MS Client Sample ID: AF-RHMW03-WGN01LF-2302W2 **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 765364

, ,	Sample S	Sample	Spike	MS	MS				%Rec
Analyte	Result (Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
2-(2-Butoxyethoxy)ethanol	3.0	U M	20.0	21.3		ma/L		107	50 - 150

Lab Sample ID: 580-123908-1 MSD Client Sample ID: AF-RHMW03-WGN01LF-2302W2 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 765364

_	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
2-(2-Butoxyethoxy)ethanol	3.0	U M	20.0	25.3		mg/L		127	50 - 150	17	50

Prep Type: Total/NA

Job ID: 580-123908-1

Matrix: Water

Project/Site: Red Hill - AFFF Assessment Sampling

Client Sample ID: AF-RHMW03-WGN01LF-2302W2 Lab Sample ID: 580-123908-1

Date Collected: 02/16/23 13:25

Matrix: Water

Date Received: 02/22/23 10:30

Client: AECOM

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number A	Analyst	Lab	or Analyzed
Total/NA	Analysis	8015C GLY		1	765364	GEM	EET SAV	02/28/23 17:01

Client Sample ID: AF-RHMW02-WGN01LF-2302W2

Lab Sample ID: 580-123908-2

Date Collected: 02/16/23 11:40 Date Received: 02/22/23 10:30

	Batch	Batch		Dilution	Batch		Prepared
Prep Type	Type	Method	Run	Factor	Number Analyst	Lab	or Analyzed
Total/NA	Analysis	8015C GLY			765364 GEM	EET SAV	02/28/23 18:11

Lab Sample ID: 580-123908-3 Client Sample ID: AF-RHMW17D-WGN01LF-2302W2

Matrix: Water

Date Collected: 02/17/23 11:45 Date Received: 02/22/23 10:30

Batch **Batch** Dilution Batch Prepared or Analyzed **Prep Type** Type Method **Factor Number Analyst** Run Lab 02/28/23 18:35 EET SAV Total/NA Analysis 8015C GLY 765364 GEM

Client Sample ID: AF-RHMW17D-WQFB01-2302W2 Lab Sample ID: 580-123908-4

Date Collected: 02/17/23 10:45 **Matrix: Water**

Date Received: 02/22/23 10:30

Batch **Batch** Dilution Batch **Prepared Prep Type** Type Method **Factor Number Analyst** or Analyzed Run Lab Total/NA Analysis 8015C GLY 765364 GEM EET SAV 02/28/23 18:58

Lab Sample ID: 580-123908-6 Client Sample ID: AF-RHMW17-WGN01LF-2302W2

Date Collected: 02/17/23 10:10 **Matrix: Water**

Date Received: 02/22/23 10:30

	Batch	Batch		Dilution	Batch		Prepared
Prep Type	Type	Method	Run	Factor	Number Analy	st Lab	or Analyzed
Total/NA	Analysis	8015C GLY		1	765364 GEM	EET SAV	02/28/23 19:45

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Seattle

Accreditation/Certification Summary

Client: AECOM Job ID: 580-123908-1

Project/Site: Red Hill - AFFF Assessment Sampling

Laboratory: Eurofins Savannah

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority		Program	Identification Number	Expiration Date				
ANAB		Dept. of Defense ELAP	09-22-24					
The following analyte the agency does not		port, but the laboratory is not	certified by the governing authority.	This list may include analytes for which				
Analysis Method	Prep Method	Matrix	Analyte					
8015C GLY		Water	2-(2-Butoxyethoxy)ethanol					

Eurofins Seattle

3/1/2023

Sample Summary

Client: AECOM Job ID: 580-123908-1

Project/Site: Red Hill - AFFF Assessment Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
580-123908-1	AF-RHMW03-WGN01LF-2302W2	Water	02/16/23 13:25	02/22/23 10:30	
580-123908-2	AF-RHMW02-WGN01LF-2302W2	Water	02/16/23 11:40	02/22/23 10:30	
580-123908-3	AF-RHMW17D-WGN01LF-2302W2	Water	02/17/23 11:45	02/22/23 10:30	
580-123908-4	AF-RHMW17D-WQFB01-2302W2	Water	02/17/23 10:45	02/22/23 10:30	
580-123908-6	AF-RHMW17-WGN01LF-2302W2	Water	02/17/23 10:10	02/22/23 10:30	

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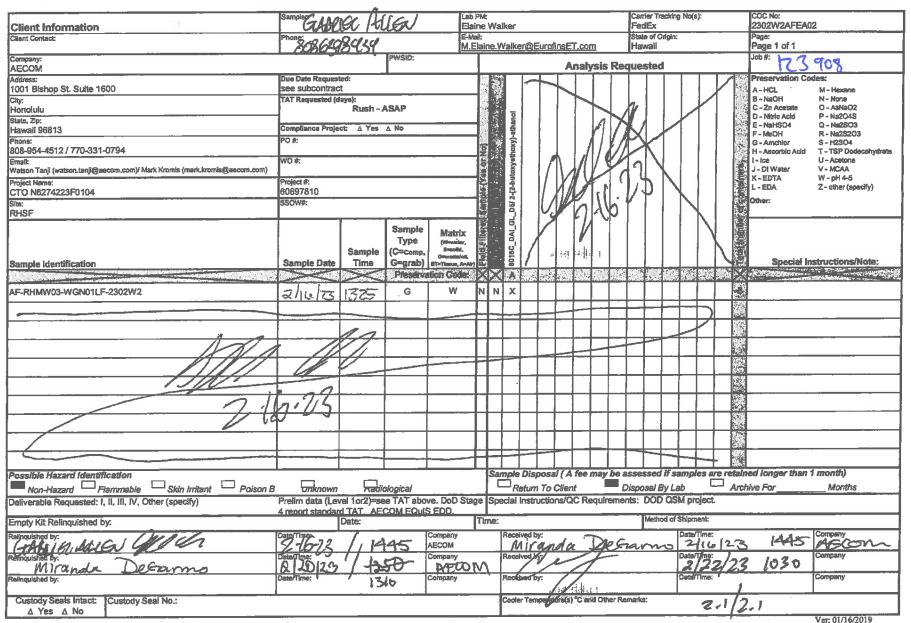
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5755 8th Street East Tacoma, WA 98424

Chain of Custody Record





5755 8th Street East Tacoma, WA 98424

Chain of Custody Record

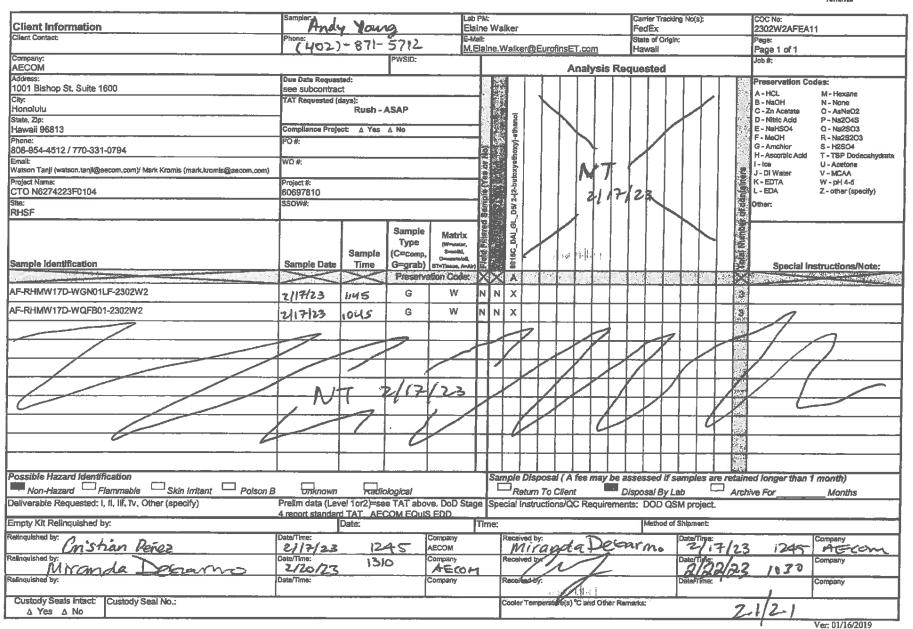
Tacoma, WA 98424																		America
Client Information	Sampler A	PKI	RIJE	Lab Ela	PM: îne Wa	aikar	·					rder Tra	acking N	o(s):			CDC No: 2302W2AFEA0	
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maa, zip: Hawali 96813	Compliance Project	ct: A Yes	A No			H &							1				E - NaHSO4	Q - Na2SO3
hone: 108-954-4512 / 770-331-0794	PO#:					hovy)-			124			1/					F - MeOH G - Amchior H - Ascorbic Acid	R - Na2\$203 S - H2\$04 T - TSP Dodecallydrate
mail: Vatson Tenji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	WO#:	-			Đ	lowye		7	11.0	I I		1					i - Ica J - Di Water	U - Acetone V - MCAA
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			Sample	Matrix		8015C_DALGL_DS/2-(2-butoxyethoxy)-eti				W.		1					J-DI Water K-EDTA L-EDA Other: Special in	
sample Identification	Canada Data	Sample	(C=comp,	Minitriox (Wanter, Sacolid, Cameterist, ST-Timum, A-Ah)		915C		X							Ì		01-11-	
Sample (dentalization	Sample Date	Time	G=grau)	1208 Code:	文区				1,178					7 E.			Special in	structions/Note:
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Ver: 01/16/2019

5755 8th Street East Tacoma, WA 98424

Chain of Custody Record





5755 8th Street East Tacoma, WA 98424

Chain of Custody Record



Client Information	Sampler: Ar	dy Yo	ung	Lab Elai	PM: ine W	/alker						Can	ier Trad Ex	;king N	lo(s):			COC No: 2302W2AFEA	10
Client Contact:	Phone:	871-5	- 0	E-M M.E	alt: Elaine.								e of Ori vali	gin:				Page: Page 1 of 1	
Company: AECOM			PWSID:		T						is Re	que	sted					Job #:	
Address:	Due Date Reques											\top	1					Preservation Co	des:
1001 Bishop St. Suite 1600	see subcontrac											1	ÍΙ	ĺ		\mathcal{A}	101	A - HCL	М - Некале
City: Honolulu State, Zip:	TAT Requested (lays): Rush - /	ASAP			-									1			B - NaOH C - Zn Acetate D - Nitric Acid	N - None O - AsNaO2 P - Na2O4S
Hawaii 96813	Compliance Proje	ct A Yes	∆ No)-ethanol								1				E - NaHSO4 F - MeOH	C - Na2SO3 R - Na2SO3
Phone: 808-954-4512 / 770-331-0794	PO #:				or Ne)	hoxy)	11		12		水			- (G - Amehlor H - Ascorbic Add	S - H2SO4 T - TSP Dodecahydrate
Email: Watson Tanji (watson.tanji@aecom.com)/ Mark Kromis (mark.kromis@aecom.com)	WO#:					outonye				T	%	1.	30	,			1	I - Ice J - Di Water	U - Acetone V - MCAA
Project Name: CTO N6274223F0104	Project #: 60697810								ľ	\forall	aliv	1/2		-			al dentain	K-EDTA L-EDA	W - pH 4-5 Z - other (specify)
Site: RHSF	SSOW#:					DB/			λ		4			i			9	Other:	
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	(Wester, Senelti,						\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \						Q.17		Special In	structions/Note:
			Preserv	ation Code.	W	(A				124								(4) - A (4)	
AF-RHMW17-WGN01LF-2302W2	2/17/23	1010	G	W	N N	N X		_	\perp	\perp	+	H	4	4	4	_	3		
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					H		Н	+	+	+	+		\pm	\pm	+				
Possible Hazard Identification							Pazas		145					-			ala.	and for any or the sec	d mouth)
Non-Hazard Flammable Skin Irritant Poison B			ological		36		etum	To C	lent	i me	Jy De	osses Dispo	seo n sal By	Lab	pres		Arch	ned longer than	Months
Deliverable Requested: I, II, III, IV, Other (specify)	Prelim data (Lev 4 report standar	rel 1or2)≔se d TAT_AE0	e TAT abo	ve. DoD Stag S EDD.	je Sp	pecial	Instru	ctions	s/QC	Requ	iireme	nts: I	OD (SM	proje	ect.			
Empty Kit Relinquished by:		Date:			Time:	:						- 7	viethod	of Shi	pmen	t		•	
Relinquished by: Andy Young	Date/Time: 2/17/23	12		Company AECOM		IM	ived by:	120	la	D	Ga	m	3	12	te/tin	1/2	:	1245	Company
Relinquished by: Miranda Debarmo	Date/Time: IAB	2/20/3	[310	Company AECO+	1	Recei	ived by	1		2	_			Da	te/Tip	22/	23	1030	Company
Relinquished by:	Date/Time:			Company		Recal	ived by:	/	7					Da	te/Tim	ne:		J	Company
Custody Seals Intact: Custody Seal No.: A Yes A No						Coole	r Temp	eralu/	e(s) °C	and C)ther Ro	marks					2.1	1/2-1	
						-												T	Ver: 01/16/2019

Login Sample Receipt Checklist

Client: AECOM Job Number: 580-123908-1

List Source: Eurofins Savannah
List Number: 2
List Creation: 02/28/23 11:41 AM

Creator: Meincke, Griffin E

Question Answer Comment

Radioactivity wasn't checked or is </= background as measured by a survey meter.

The cooler's custody seal, if present, is intact.

Sample custody seals, if present, are intact.

The cooler or samples do not appear to have been compromised or tampered with.

Samples were received on ice.

Cooler Temperature is acceptable.

Cooler Temperature is recorded.

COC is present.

COC is filled out in ink and legible.

COC is filled out with all pertinent information.

Is the Field Sampler's name present on COC?

There are no discrepancies between the containers received and the COC.

Samples are received within Holding Time (excluding tests with immediate HTs)

Sample containers have legible labels.

Containers are not broken or leaking.

Sample collection date/times are provided.

Appropriate sample containers are used.

Sample bottles are completely filled.

Sample Preservation Verified.

There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Multiphasic samples are not present.

Samples do not require splitting or compositing.

Residual Chlorine Checked.

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